

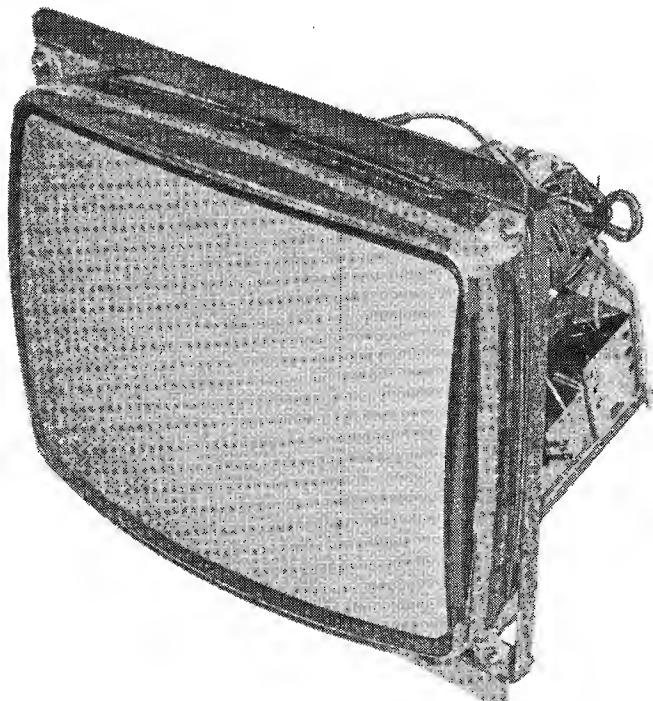
SEGA[®]

3RD PRINTING

DISPLAY MANUAL

20" COLOR MC-2000-S

200-0039



420-5028

SEGA ENTERPRISES LTD.

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- Segate Enterprises Ltd.,
P.O. Box 63,
Tokyo Airport Post Office,
Tokyo 149, Japan,
Tel : 03-742-3171 Tlx : J22357,
Cable : SEGASTAR

- Gremlin Industries, Inc.,
8401 Aero Drive,
San Diego, California 92123,
U.S.A.
Tel : (714)277-8700
Tlx : 9103351621

- Segate Enterprises, Inc.,
2029 Century Park East,
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Tel : (213)557-1700
Tlx : 688433 SEGASTAR LSA

- Segate Europe Limited,
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Mayfair, London W1X 3DB
England
Tel : 01-409 1286
Tlx : 25512 SEGAUK G

NOTE

- This chapter provides you with the necessary information for ordering replacement parts for your 20" Color Monitor.
- When ordering parts from your distributor, give the part number, part name, applicable figure number of this manual (420-5028) and serial number of your game.
- This will help to avoid confusion and mistakes in your order.
- We hope the results will be less downtime and more profit from your game.

SEGA 製品番号 (Sega part No. of Monitor)

200-0039 Color Display Assy, 20 Type, 100v
(NA MC-2000-S)

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1. SPECIFICATIONS

1.1 Power Input : AC100V ± 10%

1.2 Frequency : 50/60 Hz

1.3 Power Consumption : 60W

(If you service this color monitor on a test bench, you must isolate the monitor from AC line voltage! An isolation transformer is mandatory for your own safety. This monitor does not contain an isolation transformer on its chassis. It is mounted instead on the game power supply. It may appear like a regular power transformer, but is really also an isolation transformer.)

1.4 Monitor Input Signals

- o Vertical Synchronization Signal

Frequency : 50 Hz ~ 60 Hz

Pulse Length : 190µS (=3TH) ~ 500µS (=8TH)

- o Horizontal Synchronization Signal

Frequency : 15.75 KHz

Pulse Length : 3µS ~ 7µS

- o Blue Video Signal $\begin{cases} +\text{Polarity} & \text{White Level Less than 5 VDC} \\ & \text{Black Level More than 0 VDC} \\ & 2.5\text{Vp-p} \sim 5\text{Vp-p} \end{cases}$

- o Green Video Signal $\begin{cases} & \text{White Level More than 0 VDC} \\ & \text{Black Level Less than 5 VDC} \\ & 3\text{Vp-p} \sim 5\text{Vp-p} \end{cases}$

- o Red Video Signal $\begin{cases} -\text{Polarity} & \text{White Level More than 0 VDC} \\ & \text{Black Level Less than 5 VDC} \\ & 3\text{Vp-p} \sim 5\text{Vp-p} \end{cases}$

- o 6-Pin connector for video signals:

Pin 1 = Vertical Synchronization,

Pin 2 = Horizontal Synchronization, Pin 3 = GND,

Pin 4 = Blue Video, Pin 5 = Green Video,

Pin 6 = Red Video

1.5 Temperature and Humidity

- o Environmental Temp. : 0°C ~ 40°C

- o Environmental Humidity : 70% Max.

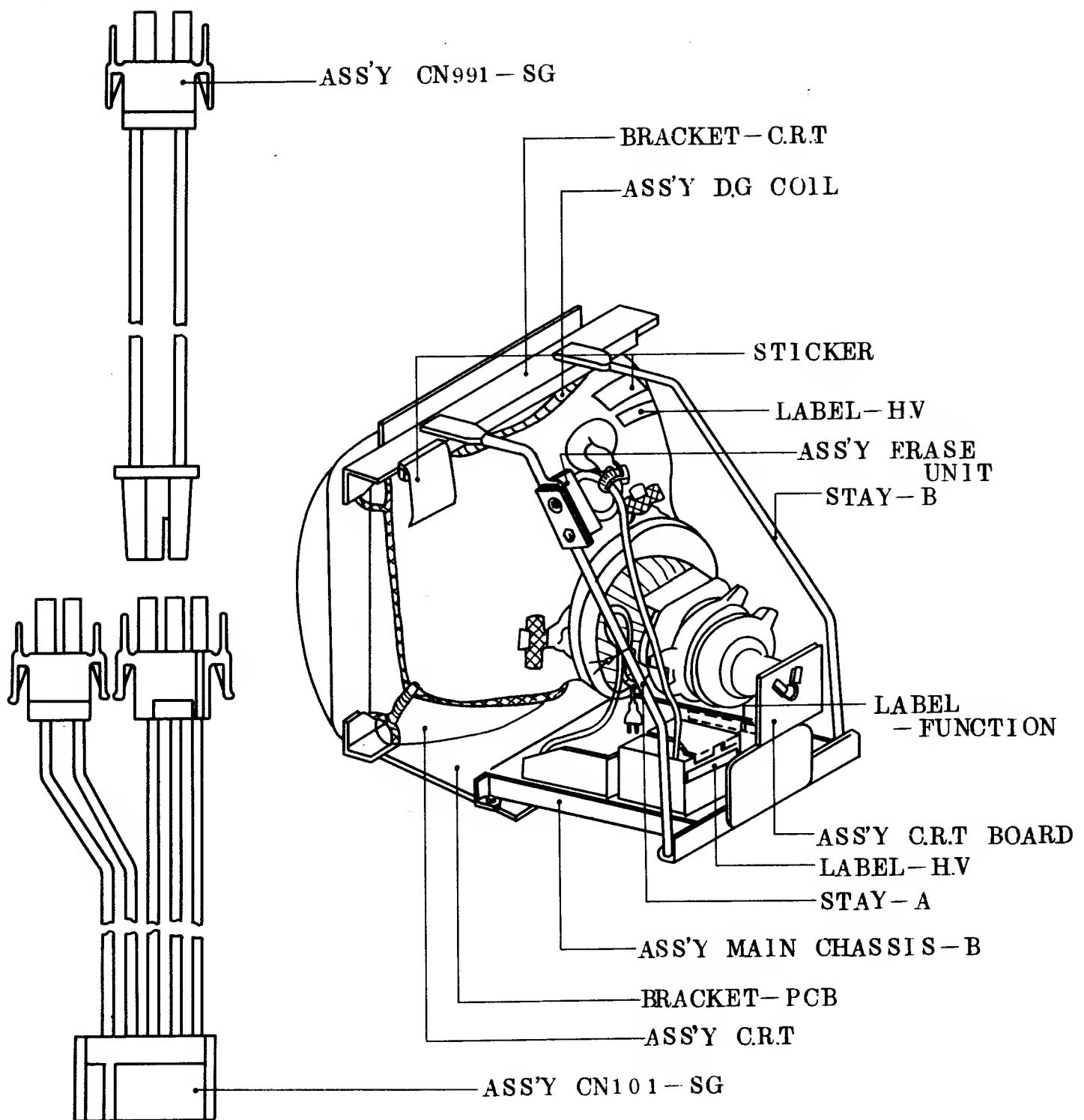
1.6 Type of CRT

20" 90° color
510UKB22 or 510NJB22

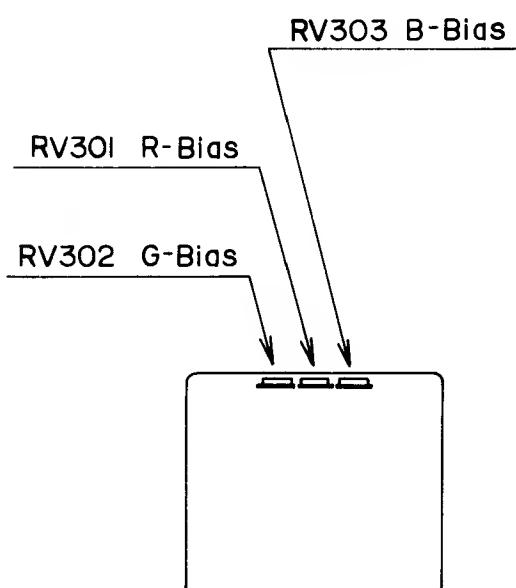
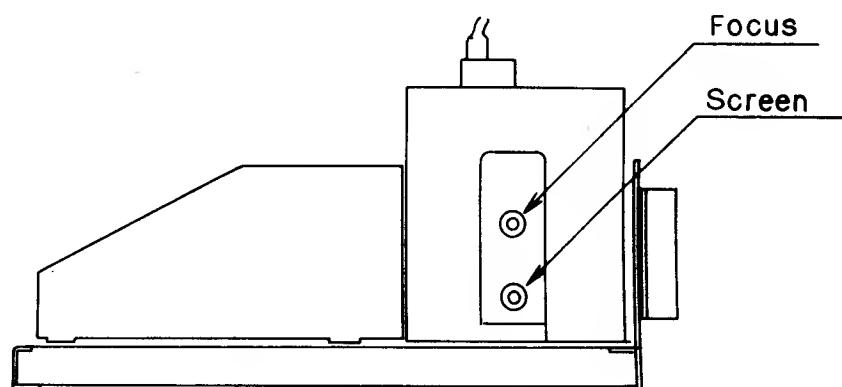
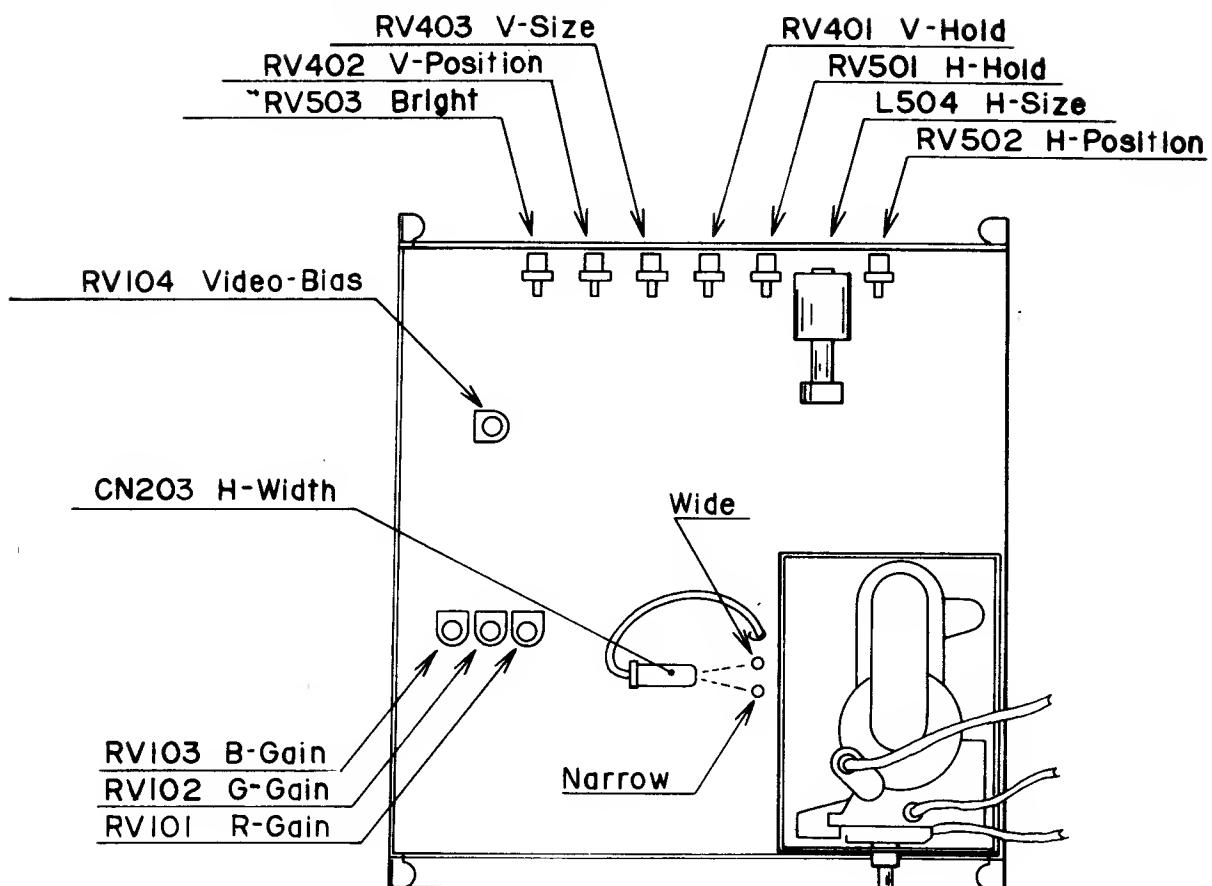
1.7 Indication Method

TV Scanning Method

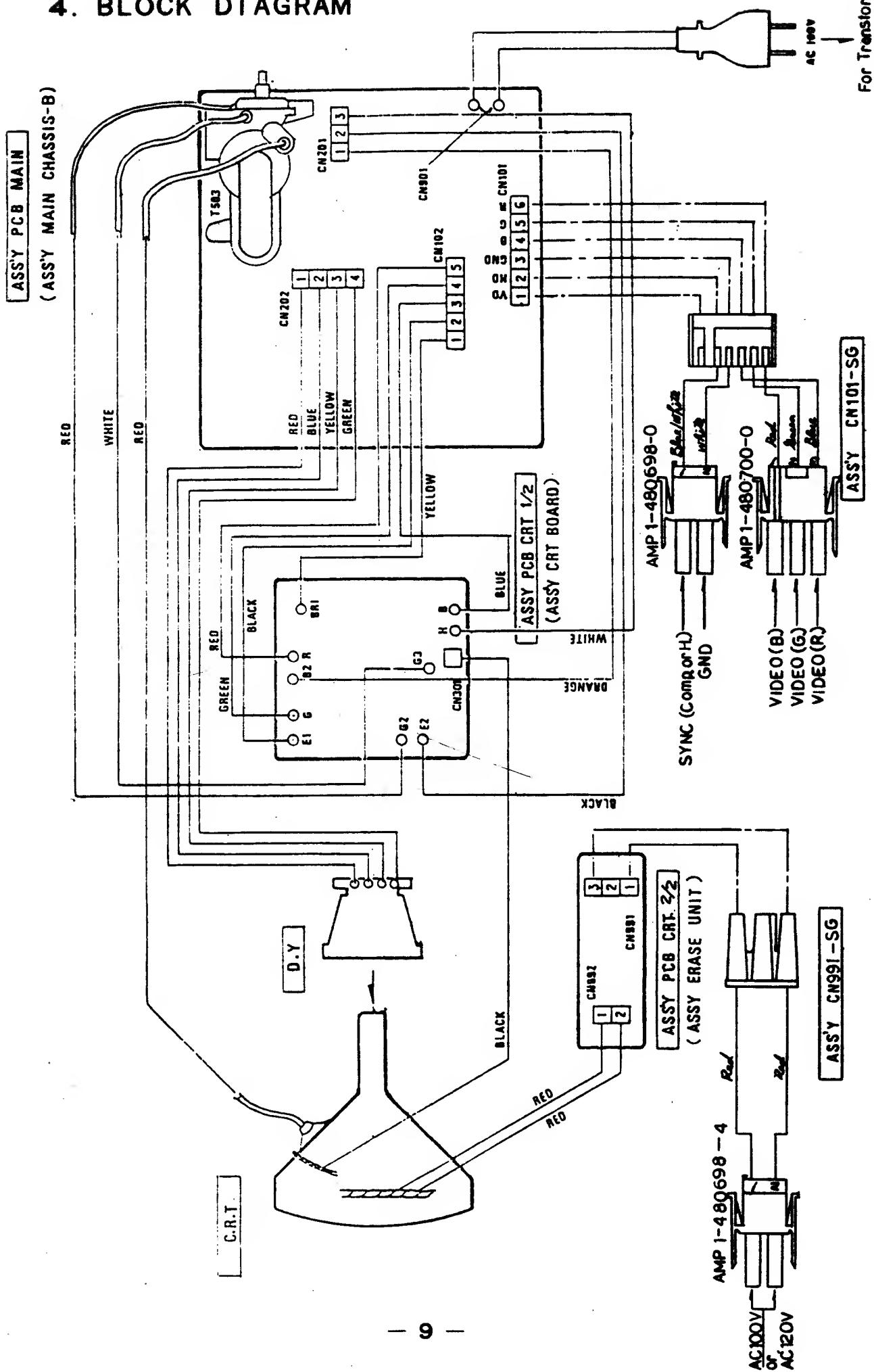
2. OVERVIEW OF MONITOR



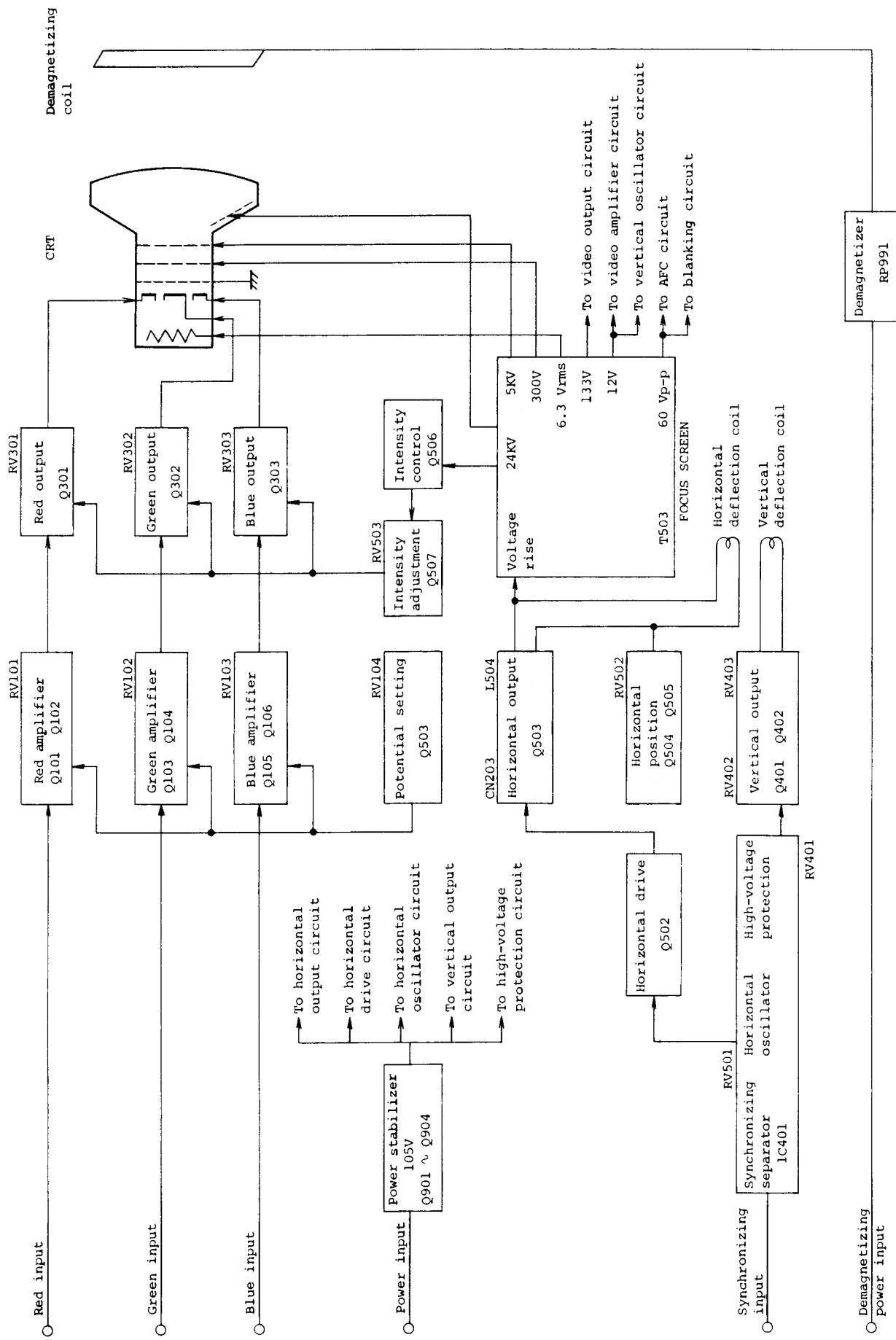
3. Outline of Assy PCB Units



4. BLOCK DIAGRAM



5. SYSTEM DIAGRAM



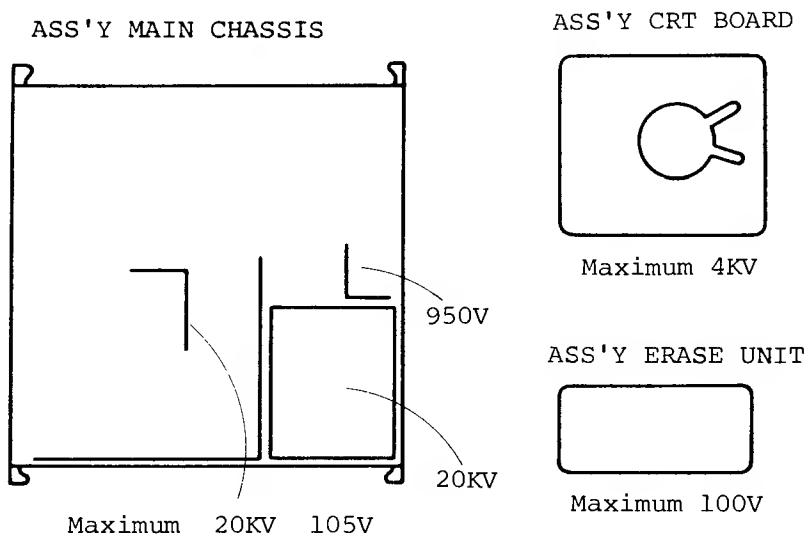
6. CAUTION

6.1 Shock

Be careful not to cause shocks when carrying the monitor because they may cause a defect. The packing for transportation tolerates a drop from a height of 500 mm; if dropped through a greater distance, the monitor may be damaged.

6.2 High Voltage

Inside the color monitor, a high voltage of over 20 KV is generated at some places. Be careful not to touch these parts. When you must make contact with these parts, first disconnect the plug from the receptacle.

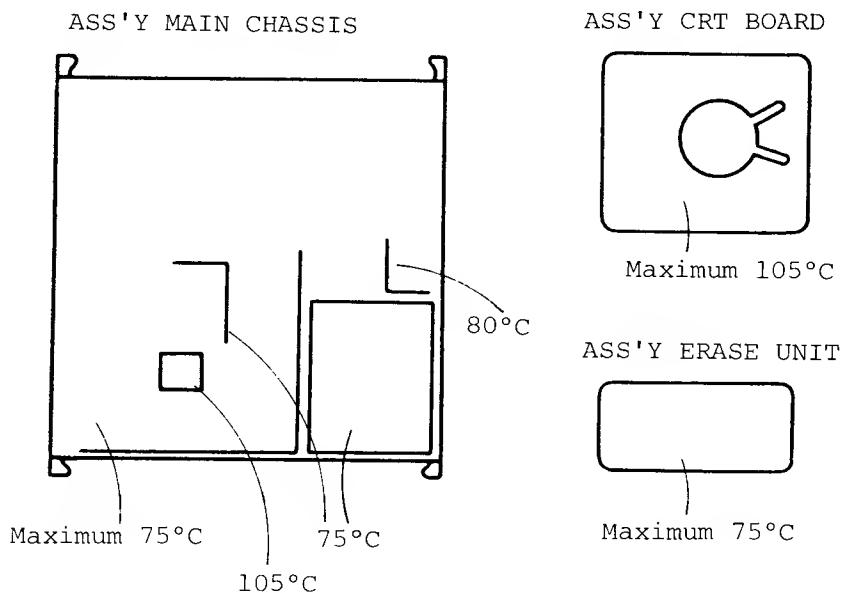


6.3 Adjusting Knobs

The adjusting knobs should not be manipulated by laymen; adjustment must be done by an expert only. Over a long period, the setting may need adjustment again. For the details of adjustment, refer to the Adjustment Guide.

6.4 High-Temperature Parts

Be careful not to leave stray bits of solder or paper inside the color monitor; they may cause malfunction, electrocution, or fire. Take special precautions to prevent tampering by customers.



6.5 Handling of Malfunctions

When an abnormal noise, smoke, or odor occurs, turn off the power switch, and at the same time disconnect the plug from the receptacle. If the monitor is used in such a condition, it may cause unexpected trouble.

6.6 Magnetism

Magnetism causes color disturbance; Keep the monitor away from magnets and speakers which will cause undesired coloring of the screen or distortion, but no serious trouble.

6.7 Static Electricity

When you touch the surface of the CRT, you may feed a slight charge of static electricity, which is harmless to humans.

6.8 Wire Binding

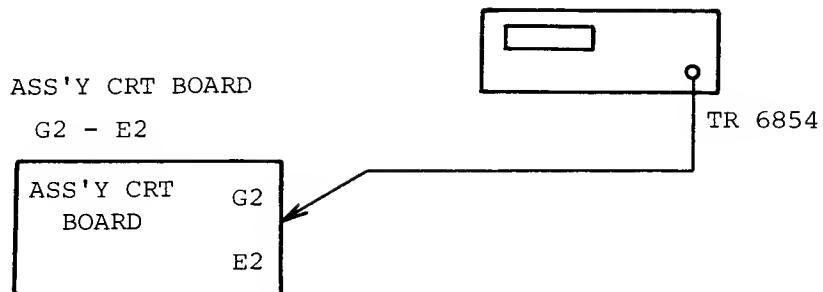
The wires (2) from the flyback transformer (T503) to the CRT board must be bound separate from other wires because of the high voltage they carry.

7. SCREEN VOLTAGE

7.1 Instrument

Digital voltmeter: YHP TR 6854

7.2 Connection Diagram



7.3 Adjustment Method

- o Connect the digital voltmeter between G2 and E2 on the assembly CRT board, and adjust the screen control to obtain 210V.

7.4 Specification

- o $210V \pm 10V$

7.5 Adjustment Conditions

- o Power voltage : Rated voltage $\pm 2\%$
- o RV503 : Maximum (Fully turn clockwise)

(When a separate Adjustment Guide is provided, it has priority over this.)

8. CONTROL ADJUSTMENT

8.1 Adjustment Conditions

- o Power voltage : Rated Voltage \pm 2%
- o RV101 \sim 3, RV301 \sim 3 : Center approximately (white raster)
- o RV503 : 1K = 600 μ A

8.2 RV401

- o Vertical hold control
- o Turn in both directions and set at the mid point of rise
(approximate center of the lock-in range of synchronization)
- o Step-out should not occur at power on/off.

8.3 RV501

- o Horizontal hold control
- o Turn in both directions and set at the mid point of rise
(approximate center of lock-in range of synchronization)
- o Step-out should not occur at power on/off.

8.4 RV402

- o Vertical centering control
- o Turn in both directions and set the video information size to the center of the CRT screen.
(When a separate Adjustment Guide is provided, it has priority over this.)

8.5 RV502

- o Horizontal centering control
- o Turn in both directions and set the video information size to the center of CRT screen.
(When a separate Adjustment Guide is provided, it has priority over this.)

8.6 RV403

- o Vertical size control
- o Set scan to 104% (overscan 4%).
(When a separate Adjustment Guide is provided, it has priority over this.)

8.7 Focus

- o Focusing control
- o Adjust to the optional state.

8.8 L504

- o Horizontal size control coil
- o Scan 104% (overscan 4%)
(When a separate Adjustment Guide is provided, it has priority over this.)

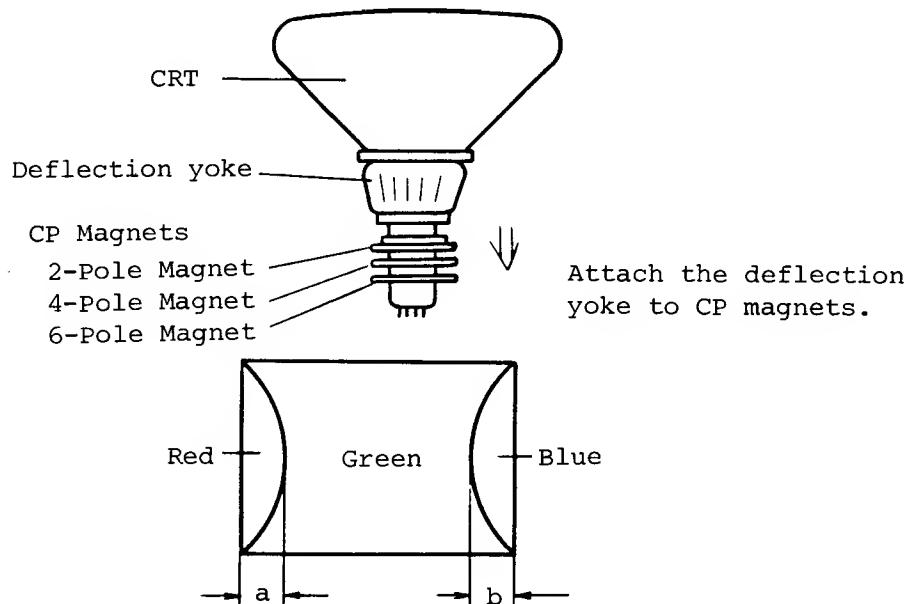
9. ITC ADJUSTMENT

9.1 Adjustment Conditions

- Power voltage : Rated voltage $\pm 2\%$
- RV503 : Center
- RV101 ~ 3 : Center
- Other controls : Adjusted
- Demagnetize the CRT brackets, shadow mask, and other metal parts with the demagnetizing coil (HOZAN HC-21).

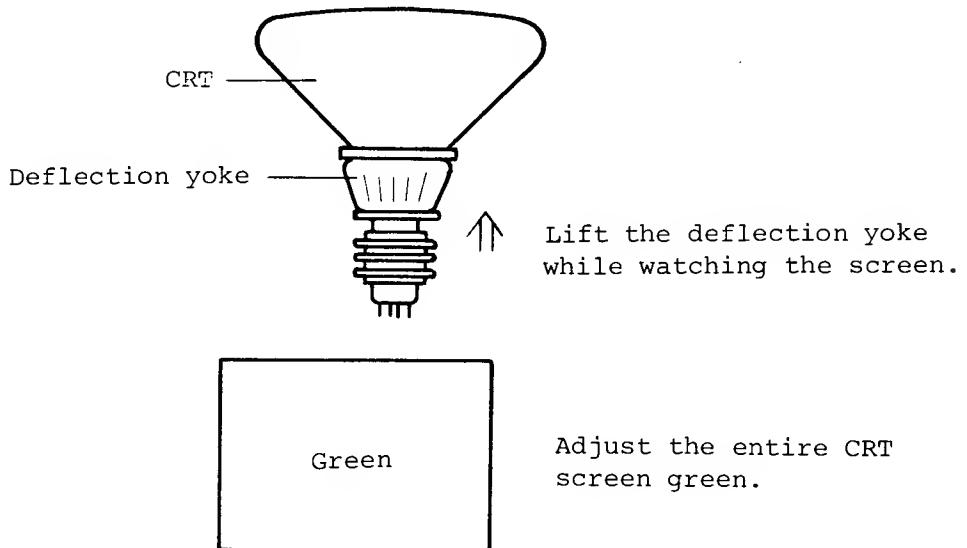
9.2 Purity Adjustment

- Attach the deflection yoke to the CP magnet and adjust RV301 to minimum (fully rotate counterclockwise)
RV302 to maximum (fully rotate clockwise)
RV303 to minimum (fully rotate counterclockwise)
to obtain a green screen.

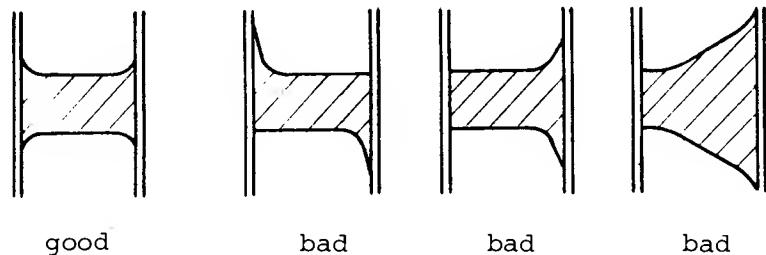


- Adjust the 2-pole magnet to obtain the same intensity of red and blue (a=b).

- Gradually lift the deflection yoke until the color shading at the four corners of the screen disappears, then temporarily fix it.



- Obtain the optimum beam landing state by observing through a microscope.

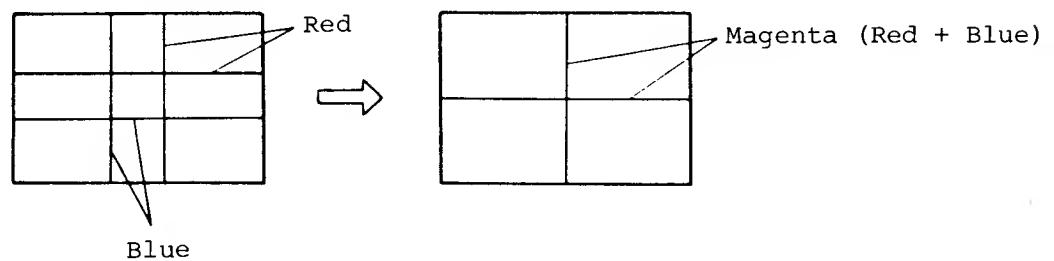


- Check that the above conditions are satisfied, and then fix in that Condition.

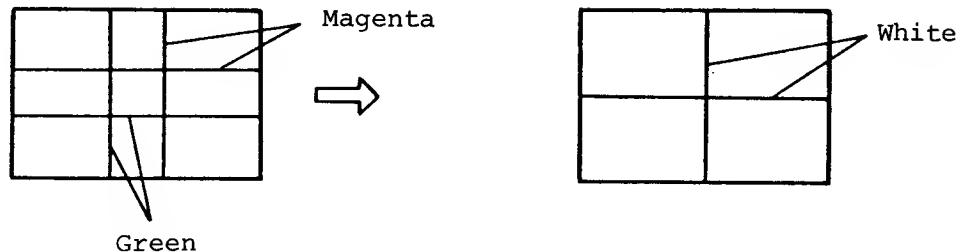
9.3 Static Convergence Adjustment

- Select the crosshatch pattern
- Obtain a magenta screen by the following setting:

RV301: Maximum (fully turn clockwise)
 RV302: Minimum (fully turn counterclockwise)
 RV303: Maximum (fully turn clockwise)



- o Adjust the 4-pole magnet to match the red and blue levels.
- o Turn RV302 to maximum (fully turn clockwise) to emit green.



- o Adjust the 6-pole magnet to match the green and magenta (red + blue) levels.

9.4 Dynamic Convergence Adjustment

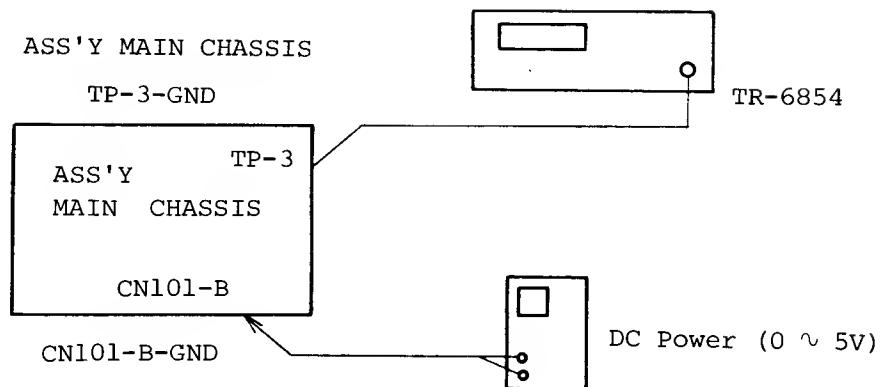
- o Check that the static convergence is adjusted.
- o Oscillate and adjust the deflection yoke so the cross hatches at the four corners of the CRT cross.
- o Fix the deflection yoke with three wedges.
- o Fix the wedges with silicon adhesives, dual-sided adhesive tape, and glass-cloth tape.

10. VIDEO BIAS ADJUSTMENT

10.1 Jig and Instrument

- o Digital voltmeter : YHP TR 6854
- o DC power : Output 0 - 5V

10.2 Connection Diagram



10.3 Adjustment Method

With RV103 and RV104, adjust the voltage at TP3 to 6V when a black-level signal is input, and 10V when a white-level signal is input.

10.4 Adjustment Conditions

- o Power voltage : Rated voltage \pm 2%
- o RV503 : Center setting

11. WHITE BALANCE ADJUSTMENT

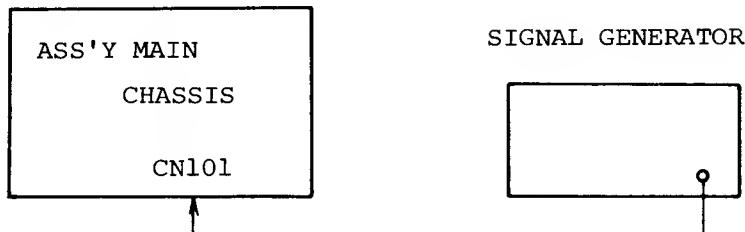
11.1 Jig and Instrument

- o Use the staircase signal with the same white or black level as the signal used.

11.2 Connection Diagram

ASS'Y MAIN CHASSIS

CN101, R, G, B - GND

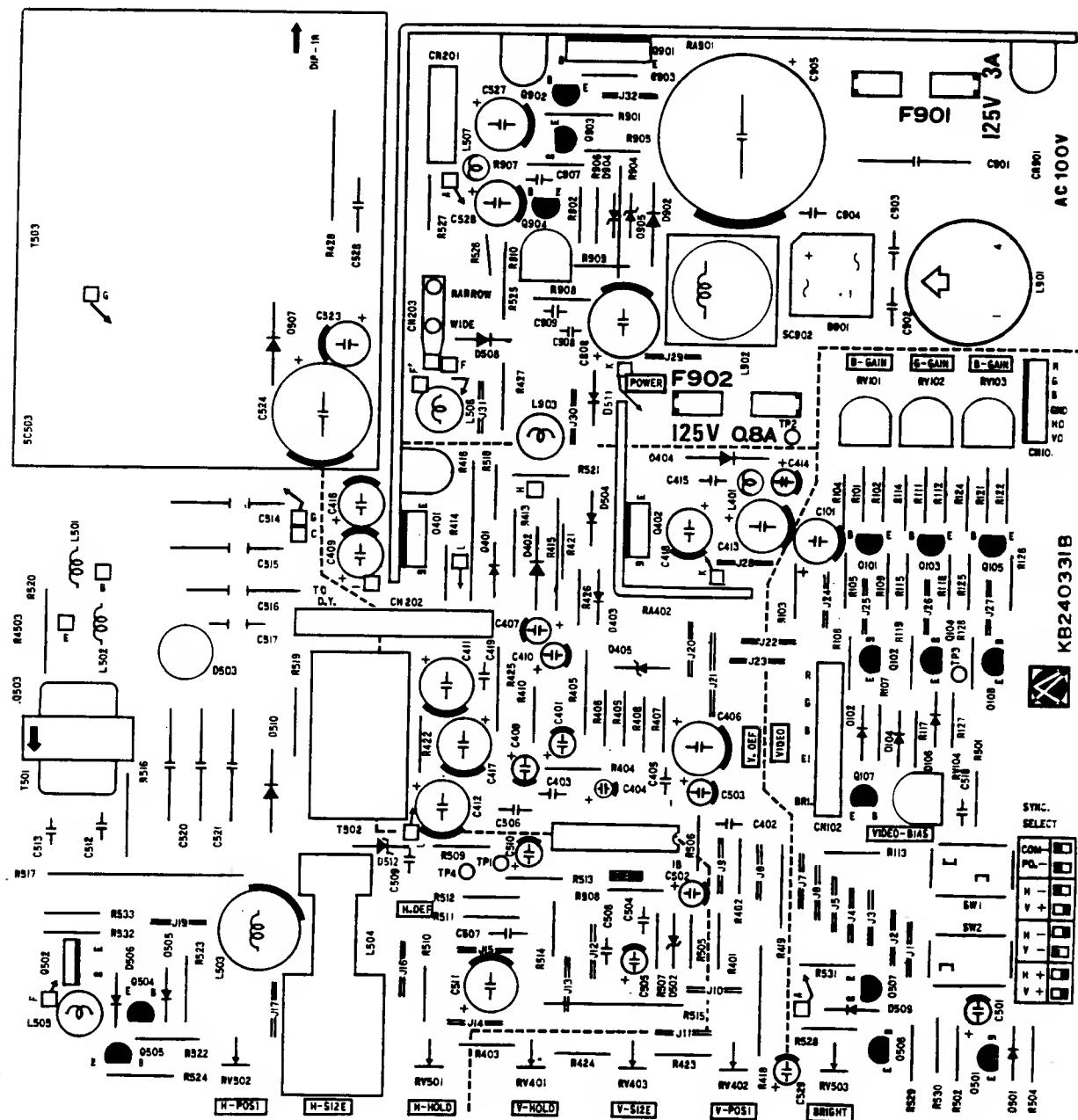


11.3 Adjustment Method

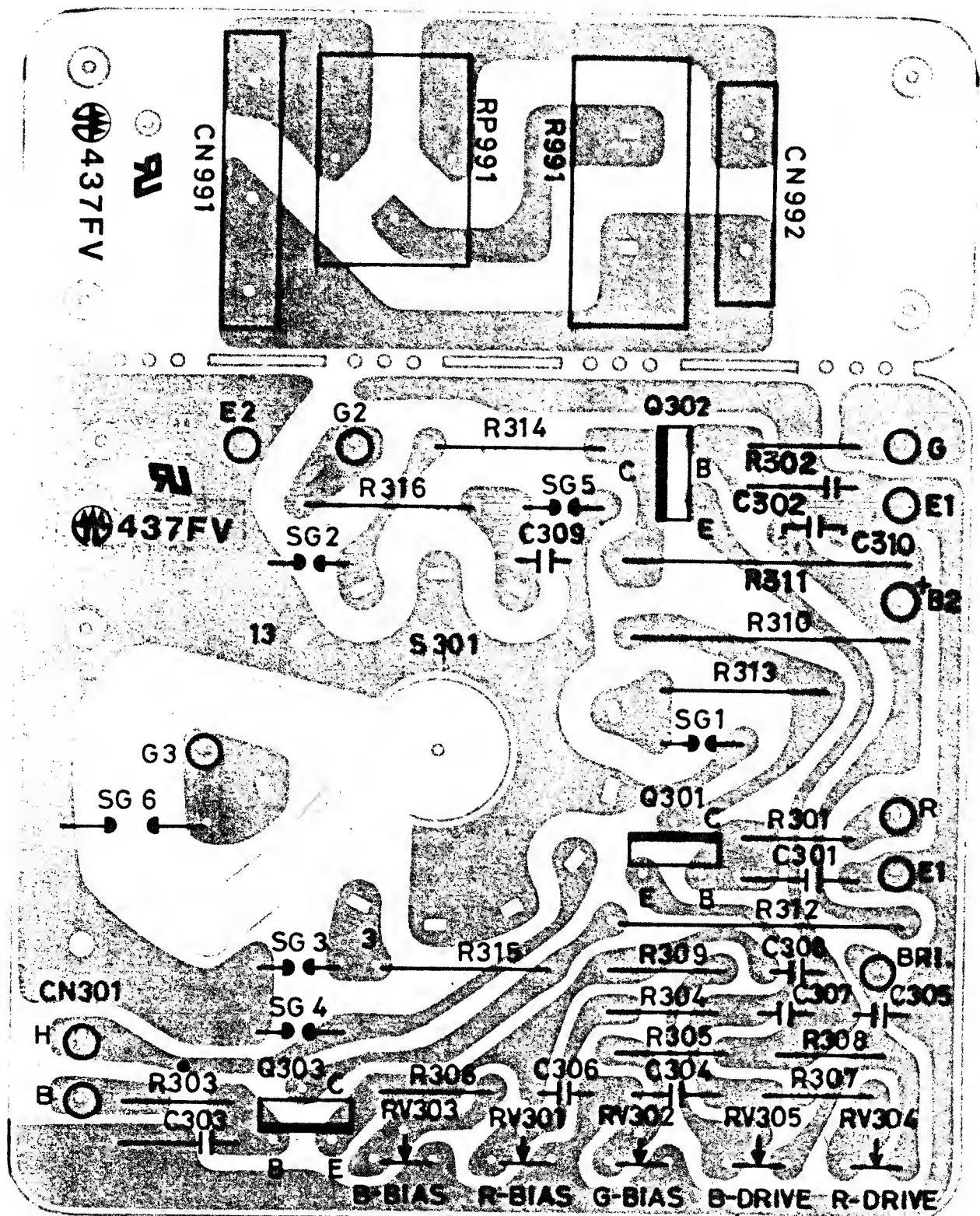
- o Turn RV101, 102, 301 and 302 to minimum (fully counterclockwise).
- o Adjust the white or black level of the blue signal by turning RV503 and RV303.
- o Adjust RV503 to the state just before the black level of signal B prevails.
- o Adjust the white and black levels of the red and green signals to obtain white balance of those levels by manipulating RV101 and RV301, and RV102 and RV302.
- o Adjust the white level by turning RV503.

(When a separate Adjustment Guide is provided, it has priority over this.)

12. ASS'Y PCB MAIN PARTS LOCATION



13. ASS'Y PCB CRT PARTS LOCATION



14. PARTS LIST OF MONITOR

14.1 Ass'y PCB Main Parts List

Symbol	Description			Part No.
	Assy PCB-MAIN			
R101	R-CARBON	NAS 1/4	680Ω-J	
R102	R-CARBON	NAS 1/4	680Ω-J	
R103	R-CARBON	NAS 1/4	2.2KΩ-J	
R104	R-CARBON	NAS 1/4	390Ω-J	
R105	R-CARBON	NAS 1/4	2.2KΩ-J	
R106	R-CARBON	NAS 1/4	390Ω-J	
R107	R-CARBON	NAS 1/4	1KΩ-J	
R108	R-CARBON	NAS 1/4	100Ω-J	
R111	R-CARBON	NAS 1/4	680Ω-J	
R112	R-CARBON	NAS 1/4	680Ω-J	
R113	R-CARBON	NAS 1/4	15KΩ-J	
R114	R-CARBON	NAS 1/4	390Ω-J	
R115	R-CARBON	NAS 1/4	2.2KΩ-J	
R116	R-CARBON	NAS 1/4	390Ω-J	
R117	R-CARBON	NAS 1/4	1KΩ-J	
R118	R-CARBON	NAS 1/4	100Ω-J	
R121	R-CARBON	NAS 1/4	680Ω-J	
R122	R-CARBON	NAS 1/4	680Ω-J	
R124	R-CARBON	NAS 1/4	390Ω-J	
R125	R-CARBON	NAS 1/4	2.2KΩ-J	
R126	R-CARBON	NAS 1/4	390Ω-J	
R127	R-CARBON	NAS 1/4	1KΩ-J	
R128	R-CARBON	NAS 1/4	100Ω-J	
R401	R-CARBON	NAS 1/4	10KΩ-J	
R402	R-CARBON	NAS 1/4	8.2KΩ-J	
R403	R-CARBON	NAS 1/4	3.3KΩ-J	
R404	R-CARBON	NAS 1/4	8.2KΩ-J	
R405	R-CARBON	NAS 1/2	270Ω-J	
R406	R-CARBON	NAS 1/4	10KΩ-J	
R407	R-CARBON	NAS 1/4	680Ω-J	

Symbol	Description	Part No.
R408	R-CARBON	NAS 1/4 1.8KΩ-J
R409	R-CARBON	NAS 1/4 8.2KΩ-J
R410	R-CARBON	NAS 1/4 10KΩ-J
R413	R-FUSABLE	FMR 1/4W 100Ω-J
R414	R-CARBON	NAS 1/4 2.2KΩ-J
R415	R-METAL	RS1B 10KΩ-J
R416	R-FUSABLE	FMR 1/4C 22Ω-J
R417	R-CEMENT	RGBIOH(V) 220Ω-K
R418	R-METAL	RS1B 4.7KΩ-J
R419	R-CARBON	NAS 1/2 2.2KΩ-J
R421	R-CARBON	NAS 1/4 68KΩ-J
R422	R-CARBON	NAS 1/4 6.8Ω-J
R423	R-CARBON	NAS 1/4 470Ω-J
R424	R-FUSABLE	FMR 1/4W 5.6Ω-J
R425	R-CARBON	NAS 1/2 390Ω-J
R426	R-CARBON	NAS 1/4 6.8KΩ-J
R427	R-FUSABLE	FMR 1/2W 1.2Ω-J
R428	R-FUSABLE	FMR 2W 1.2Ω-J
R501	R-CARBON	NAS 1/4 330Ω-J
R502	R-CARBON	NAS 1/4 10KΩ-J
R504	R-CARBON	NAS 1/4 10KΩ-J
R505	R-CARBON	NAS 1/4 27KΩ-J
R506	R-CARBON	NAS 1/4 390KΩ-J
R507	R-CARBON	NAS 1/4 18KΩ-J
R508	R-CARBON	NAS 1/4 68KΩ-J
R509	R-CARBON	NAS 1/4 6.8KΩ-J
R510	R-CARBON	NAS 1/4 10KΩ-J
R511	R-CARBON	NAS 1/4 1.2KΩ-J
R512	R-CARBON	NAS 1/4 470Ω-J
R513	R-METAL	RNL 1/4 3.3KΩ-J
R514	R-METAL	RNL 1/4 560KΩ-J

Symbol	Description	Part No.
R515	R-METAL	RS2B 6.8KΩ-J
R516	R-CARBON	NAS 1/2 8.2KΩ-J
R517	R-METAL	RS3B 3.3KΩ-J
R518	R-CARBON	NAS 1/4 8.2KΩ-J
R519	R-CARBON	NAS 1/2 4.7KΩ-J
R520	R-CARBON	NAS 1/2 33Ω-J
R521	R-CARBON	NAS 1/4 10KΩ-J
R522	R-FUSABLE	FMR 1/4W 330Ω-J
R523	R-FUSABLE	FMR 1/4W 330Ω-J
R524	R-FUSABLE	FMR 1/4W 330Ω-J
R525	R-FUSABLE	FMR 1/2W 4.7Ω-J
R526	R-CARBON	NAS 1/4 100Ω-J
R527	R-CARBON	NAS 1/4 22KΩ-J
R528	R-CARBON	NAS 1/4 22KΩ-J
R529	R-CARBON	NAS 1/4 390Ω-J
R530	R-CARBON	NAS 1/4 4.7KΩ-J
R531	R-CARBON	NAS 1/4 470Ω-J
R532	R-CARBON	NAS 1/4 680Ω-J
R533	R-CARBON	NAS 1/4 47Ω-J
R901	R-FUSABLE	FMR 1/4W 330Ω-J
R902	R-CARBON	NAS 1/4 47KΩ-J
R903	R-FUSABLE	FMR 1/4W 68Ω-J
R904	R-METAL	RS1B 15KΩ-J
R905	R-CARBON	NAS 1/4 1MΩ-J
R906	R-CARBON	NAS 1/4 15KΩ-J
R907	R-CARBON	NAS 1/4 68KΩ-J
R908	R-CARBON	NAS 1/4 68KΩ-J
R909	R-CARBON	NAS 1/4 4.7KΩ-J
RV101	R-VARIABLE	V8K4-1 5KΩ
RV102	R-VARIABLE	V8K4-1 5KΩ
RV103	R-VARIABLE	V8K4-1 5KΩ
RV104	R-VARIABLE	V8K4-1 5KΩ

Symbol	Description	Part No.
RV401	R-VARIABLE	RVA0911H320-7-502M
RV402	R-VARIABLE	RVG0911H320-7-303M
RV403	R-VARIABLE	RVA0911H320-7-501M
RV501	R-VARIABLE	RVA0911H320-7-302M
RV502	R-VARIABLE	RVG0911H320-7-303M
RV503	R-VARIABLE	RVG0911H320-7-303M
R910	R-SEMIFIXED	V8K4-1 3KΩ
C101	C-ELECTRO.	SM 16VB-100 (M)
C401	C-ELECTRO.	SM 50VB-1 (M)
C402	C-POLYESTER	DEP50V 333 K
C403	C-POLYESTER	DEP50V 333 K
C404	C-TANTAL	SCF1 16V 2.2μF-K
C405	C-CERAMIC	DD104-63B 561K 50V
C406	C-ELECTRO.	SM 16VB-470 (M)
C407	C-ELECTRO.	SM 25VB-10 (M)
C408	C-TANTAL	SCF1 25V 10μF-K
C409	C-ELECTRO.	SM 100VB-10 (M)
C410	C-ELECTRO.	SM 50VB-1 (M)
C411	C-ELECTRO.	SM 35VB-220 (M)
C412	C-ELECTRO.	SM 6.3VB-470 (M)
C413	C-ELECTRO.	SM 16VB-470 (M)
C414	C-ELECTRO.	SM 25VB-10 (M)
C415	C-CERAMIC	DD09-63B 222K500V
C416	C-ELECTRO.	SM 100VB-10 (M)
C417	C-ELECTRO.	SM 35VB-220 (M)
C418	C-ELECTRO.	SM 160VB-2.2 (M)
C419	C-CERAMIC	DD09-63B 222K500V
C501	C-ELECTRO.	SM 25VB-10 (M)
C502	C-ELECTRO.	SM 25VB-10 (M)
C503	C-ELECTRO.	SM 50VB-1 (M)
C504	C-CERAMIC	DD105-63B 222K50V

Symbol	Description			Part No.
C505	C-ELECTRO.	SM 50VB-1 (M)		
C506	C-POLYESTER.	DEP50V	473K	
C507	C-POLYESTER.	DEP50V	473K	
C508	C-POLYPRO.	DTW100V	562-G	
C510	C-ELECTRO.	SM 50VB-1 (M)		
C511	C-ELECTRO.	SM 16VB-220 (M)		
C512	C-CERAMIC	DD05-63B 561K500V		
C513	C-CERAMIC	DD12-63B 472K500V		
C514	C-CERAMIC	DE1510R 222K DKB 1.6KV 222J		
C515	C-CERAMIC	DE1510R 222K DKB 1.6KV 222J		
C516	C-CERAMIC	DE1410R 182K DKV 1.6KV 182J		
C517	C-CERAMIC	DE1110R 821K		
C518	C-CERAMIC	DD104-63B 821K 50V		
C520	C-PORIPRO.	DTW 200VDC 0.47 μ F (M)		
C523	C-ELECTRO.	SM 50VB-47 (M)		
C524	C-ELECTRO.	SM 160VB-47 (M)		
C526	C-ELECTRO.	SM 160VB-1 (M)		
C527	C-ELECTRO.	SM 160VB-1 (M)		
C528	C-PORIPRO.	DTW 630VDC 0.01 μ F (M)		
C529	C-ELECTRO.	SM 25VB-10 (M)		
C901	C-POLYPRO.	(UL) LHX 125VAC 0.1 μ F		
C902	C-CERAMIC	MV DE0807E 222Z AC250V		
C903	C-CERAMIC	MV DE0807E 222Z AC250V		
C904	C-CERAMIC	DD09-63B 222K500V		
C905	C-ELECTRO.	NM 180VSN 680 (M)		
C906	C-ELECTRO.	SM 160VB-22 (M)		
C907	C-CERAMIC	DD05-63B 221K500V		
C908	C-CERAMIC	DD05-63B 561K500V		
C909	C-CERAMIC	DD05-63B 561K500V		
L401	L-CHOKE	FL7H 101K		
L501	L-CHOKE	0.47 μ H	2F16125AA	
L502	L-CHOKE	0.47 μ H	2F16125AA	

Symbol	Description		Part No.
L503	L-LINEAR	LH13P04A (WLH-28A)	4F16076AA
L504	L-SIZE		4F16077AA
L505	L-CHOKE	FL9H 332J	
L506	L-CHOKE	(300 μ H)	4F16078AA
L507	L-CHOKE	FL5H 561K	
L901	L-CHOKE	FKOB 160MH24 1.5mH	
L902	L-CHOKE	460 μ H	4F16079AA
L903	L-CHOKE	300 μ H	4F16078AA
T501	T-H-DRIVE	P 33611301	2F13113AA
T502	T-PIN-CORR		4F13053AB
T503	T-FBT	MSH1FAC02	
D102	D-ZENER	HZ12-B or C, MZ314-A or B RD13E	
D104	D-ZENER	HZ12-B or C, MZ314-A or B	
D106	D-ZENER	HZ12-B or C, MZ314-A or B	
D401	DIODE	1S2076, 1S1588, 1S953, 1S2473	
D402	DIODE	RM1Z, 1S1886, SIB12-02	
D403	DIODE	1S2076A, 1S1553, 1S955, 1S2471	
D404	DIODE	RU2, 1S1834, ERC24-06	
D405	DIODE	HZ24, MZ324, RD24E, EQA01-24	
D501	DIODE	1S2076, 1S1588, 1S953, 1S2473	
D502	D-ZENER	HZ7-B, MZ307-B, RD6.8E-B3, RD7.5E-B1, EQA01-07S	
D504	DIODE	1S2076, 1S1588, 1S953, 1S2473	
D505	DIODE	1S2067A, 1S1553, 1S955, 1S2471	
D506	DIODE	1S2076A, 1S1553, 1S955, 1S2471	
D507	DIODE	RU2, 1S1834, ERC24-06	
D508	DIODE	RH1, S5295G, ERB28-04	
D509	DIODE	1S2076, 1S1588, 1S953, 1S2473	
D510	DIODE	RH1, S5295G, ERB28-04	

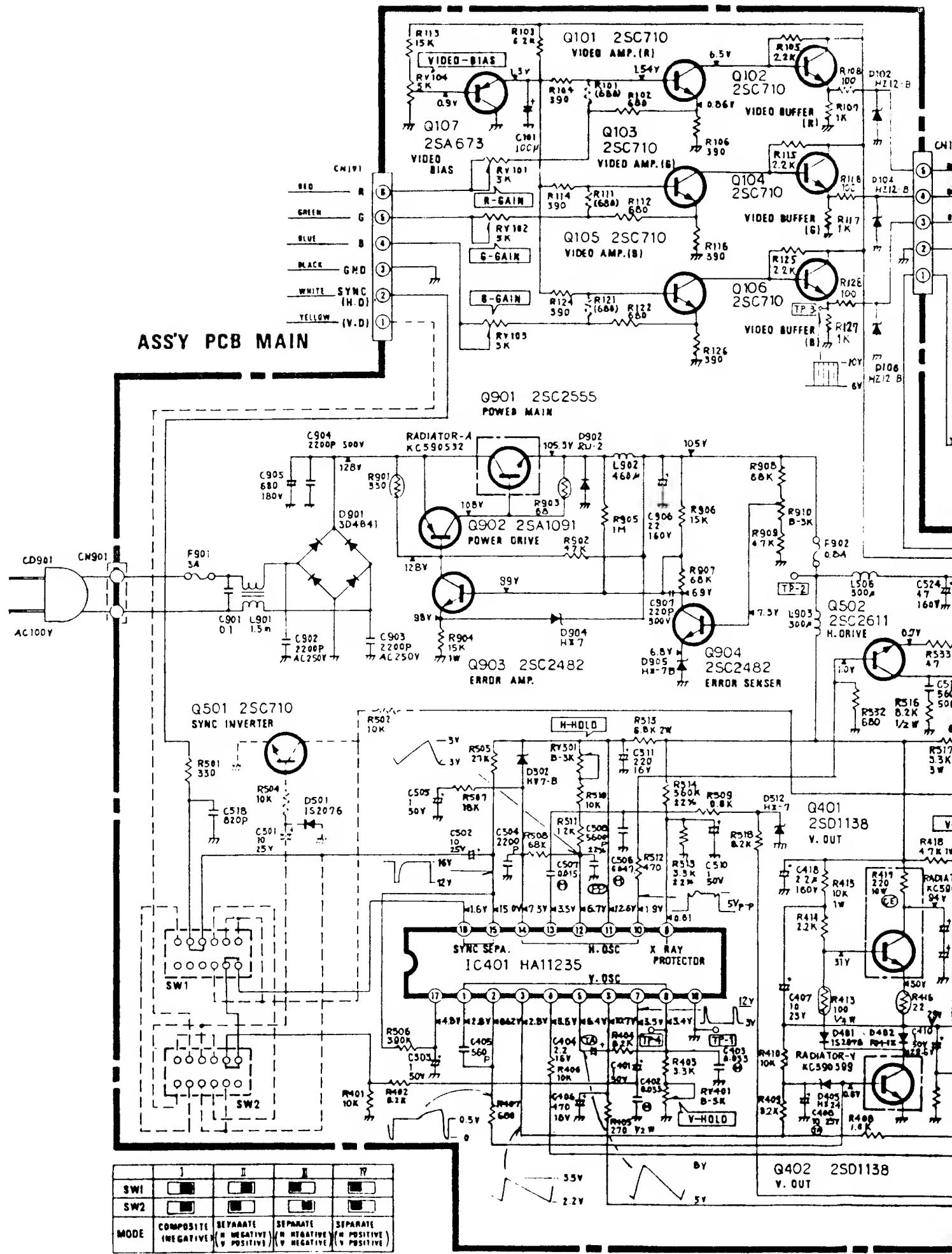
Symbol	Description	Part No.
D511	DIODE	1S2076, 1S1588, 1S953, 1S2473
D512	DIODE	HZ-7, MZ307, RD6.8E, EQA01-07S
D901	D-BRIDGE	3D4B41, RB402
D902	DIODE	RU2, 1S1834, ERC24-06
D904	D-ZENER	HZ7, MZ307, RD6.8E, EQA01-07S
D905	D-ZENER	HZ7-B, MZ307-B, RD6.8E-B3 RD7.5E-B1, EQA01-07S
Q101	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q102	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q103	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q104	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q105	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q106	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724
Q107	TRANSISTOR	2SA673, 2SA695, 2SA933, 2SA950, 2SA952, 2SA1015
SW1	SWITCH	SSA042
SW2	SWITCH	SSA042

Symbol	Description		Part No.
Q401	TRANSISTOR	2SD1138	
		2SC2073	
Q402	TRANSISTOR		
Q501	TRANSISTOR	2SC458, 2SC710, 2SC945, 2SC1740, 2SC1815, 2SC2410, 2SC2724	
Q502	TRANSISTOR	2SC1749, 2SC2456, 2SC2611, 2SC2688	
Q503	TRANSISTOR	2SD900B	
		2SD870	
Q504	TRANSISTOR	2SD763, 2SD974, 2SC2383	
Q505	TRANSISTOR	2SD763, 2SD974, 2SC2383	
Q506	TRANSISTOR	2SA673, 2SA695, 2SA933, 2SA950, 2SA952, 2SA1015	
Q507	TRANSISTOR	2SA673, 2SA695, 2SA933, 2SA950, 2SA952, 2SA1015	
Q901	TRANSISTOR	2SC2555	
Q902	TRANSISTOR	2SA1091	
Q903	TRANSISTOR	2SC2383, 2SC2482, 2SC2610	
Q904	TRANSISTOR	2SC2383, 2SC2482, 2SC2610	
IC401	IC	HA11235	
F901	FUSE	UL TSC (B) 3A 5Ø x 20 mm	
CF901	FUSE-CLIP	27228	OF55006A1
F902	FUSE	UL TSC (B) 0.8A 5Ø x 20 mm	
CF901	FUSE-CLIP	27228	
	ASS'Y TR. (V-OUT)	KD920768	
	ASS'Y TR. (H-OUT)	KD920870	
	ASS'Y RADIATOR-A	KC920672	

14.2 Ass'Y PCB C.R.T. (KB240326-B)

Symbol	Description			Part No.
R301	R-CARBON	NAS 1/4	100Ω-J	
R302	R-CARBON	NAS 1/4	100Ω-J	
R303	R-CARBON	NAS 1/4	100Ω-J	
R304	R-CARBON	NAS 1/4	1.2KΩ-J	
R305	R-CARBON	NAS 1/4	1.2KΩ-J	
R306	R-CARBON	NAS 1/4	1.2KΩ-J	
R307	R-CARBON	NAS 1/4	330Ω-J	
R308	R-CARBON	NAS 1/4	330Ω-J	
R309	R-CARBON	NAS 1/4	330Ω-J	
R310	R-METAL	RS2B	8.2KΩ-J	
R311	R-METAL	RS2B	8.2KΩ-J	
R312	R-METAL	RS2B	8.2KΩ-J	
R313	R-SOLID	RC 1/2	2.2KΩ-J	
R314	R-SOLID	RC 1/2	2.2KΩ-J	
R315	R-SOLID	RC 1/2	2.2KΩ-J	
R316	R-SOLID	RC 1/2	1MΩ-J	
RV301	R-VARIABLE	RVA0911H-306-1B	5KΩ	
RV302	R-VARIABLE	RVA0911H-306-2B	5KΩ	
RV303	R-VARIABLE	RVA0911H-306-3B	5KΩ	
RV304	R-VARIABLE	RVA0911H-306-7B	220Ω	
RV305	R-VARIABLE	RVA0911H-306-7B	220Ω	
C304	C-CERAMIC	DD104-63B 271K50V		
C305	C-CERAMIC	DD104-63B 271K50V		
C306	C-CERAMIC	DD104-63B 271K50V		
C309	C-CERAMIC	DE0705-B 102K1KV		
Q301	TRANSISTOR	2SC2611, 2SC2456, 2SC2688, 2SC1749		
Q302	TRANSISTOR	2SC2611, 2SC2456, 2SC2688, 2SC1749		
Q303	TRANSISTOR	2SC2611, 2SC2456, 2SC2688, 2SC1749		
S301	SOCKET-CRT	1398 ŌSHIMA		
R991	R-CEMENT	RGB5PH	100Ω-K	
RP991	POSISTOR	PTH451B02BG080N140		

ASS'Y PCB MAIN



	I	II	III	IV
SW1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SW2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MODE	COMPOSITE (NEGATIVE)	SEPARATE V NEGATIVE	SEPARATE V POSITIVE	SEPARATE V NEGATIVE POSITIVE

